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(54) NON-AQUEOUS ELECTROLYTE BATTERY

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a non-aqueous electrolyte battery, in which reduction in discharge capacity with a sudden temperature change is remarkably reduced and which has excellent productivity, by unifying any one of a positive electrode active material and a negative electrode active material with a binder agent formed of the mixture of polyimide, of which imidation is completed and which can be dissolved in an organic solvent, and a fluorinated polymer. SOLUTION: A positive electrode having a positive electrode active material formed of a chalcogen compound, in which lithium ion can be freely inserted and drawn, and a composite chalcogen compound, which includes lithium, and a negative electrode having a negative electrode active material formed of a material, in which lithium ion can be freely inserted and drawn, such as carbon are provided so as to obtain a nonaqueous electrolyte battery. In this battery, an active material of any one of the positive electrode and the negative electrode is unified by the binder agent. As this binder agent, a mixture of polyimide, of which imidation is completed and which can

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be dissolved in an organic solvent and which is expressed with the formula, and a fluorinated polymer such as polyvinylidene fluoride is used. In the formula, Ar1, Ar2 are aryls and (n) is an integer of 1 or more.

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